

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

The Commissioner is hereby authorized to charge the sum of \$180.00 due under 37 CFR § 1.17(p) pursuant to § 1.97, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/008670/BKH.

Respectfully submitted,



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Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of

10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-3,510,369	5/5/1970	Emick, et al.	
	A2	US-4,262,631	4/21/1981	Kubacki	
	A3	US-4,532,150	7/30/1985	Endo et al.	
	A4	US-4,634,601	1/6/1987	Hamakawa, et al.	
	A5	US-4,649,071	3/10/1987	Tajima, et al.	
	A6	US-4,759,947	7/26/1988	Hishihara, et al.	
	A7	US-4,872,947	10/10/1989	Wang, et al.	
	A8	US-4,894,352	1/16/1990	Lane, et al.	
	A9	US-4,895,734	1/23/1990	Yoshida, et al.	
	A10	US-4,951,601	8/28/1990	Maydan, et al.	
	A11	US-4,981,724	1/1/1991	Hochberg, et al.	
	A12	US-5,000,113	3/19/1991	Wang, et al.	
	A13	US-5,000,178	3/19/1991	Griffith	
	A14	US-5,011,706	4/30/1991	Tarhay, et al.	
	A15	US-5,086,014	2/4/1992	Miyata, et al.	
	A16	US-5,087,959	2/11/1992	Omor, et al.	
	A17	US-5,224,441	7/6/1993	Felts, et al.	
	A18	US-5,238,866	8/24/1993	Bolz, et al.	
	A19	US-5,242,530	9/7/1993	Batey, et al.	
	A20	US-5,271,972	12/21/1993	Kwok, et al.	
	A21	US-5,298,587	3/29/1994	Hu, et al.	
	A22	US-5,298,597	3/29/1994	You, et al.	
	A23	US-5,360,491	11/1/1994	Carey, et al.	
	A24	US-5,362,526	11/8/1994	Wang, et al.	
	A25	US-5,465,680	11/14/1995	Loboda	
	A26	US-5,468,978	11/21/1995	Dowben	
	A27	US-5,480,300	1/2/1996	Okoshi, et al.	
	A28	US-5,494,712	2/27/1996	Hu, et al.	

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Sheet 2

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		Number-Kind Code ² (if known)			
	A29	US-5,554,570	9/10/1996	Maeda, et al.	
	A30	US-5,565,084	10/15/1996	Lee, et al.	
	A31	US-5,591,566	1/7/1997	Ogawa	
	A32	US-5,607,773	3/4/1997	Ahlburn, et al.	
	A33	US-5,638,251	6/10/1997	Goel, et al.	
	A34	US-5,641,607	6/24/1997	Ogawa, et al.	
	A35	US-5,658,834	8/19/1997	Dowben	
	A36	US-5,691,209	11/25/1997	Liberkowski	
	A37	US-5,710,067	1/20/1998	Foote, et al.	
	A38	US-5,711,987	1/27/1998	Bearinger, et al.	
	A39	US-5,730,792	3/24/1998	Camilletti, et al.	
	A40	US-5,741,626	4/21/1998	Jain, et al.	
	A41	US-5,776,235	7/7/1998	Camilletti, et al.	
	A42	US-5,780,163	7/14/1998	Camilletti, et al.	
	A43	US-5,789,316	8/4/1998	Lu	
	A44	US-5,789,776	8/4/1998	Lancaster, et al.	
	A45	US-5,817,572	10/6/1998	Chiang, et al.	
	A46	US-5,817,579	10/6/1998	Ko, et al.	
	A47	US-5,818,071	10/6/1998	Loboda, et al.	
	A48	US-5,855,681	1/5/1999	Maydan, et al.	
	A49	US-5,869,396	2/9/1999	Pan, et al.	
	A50	US-5,876,891	3/2/1999	Takimoto, et al.	
	A51	US-5,926,740	7/20/1999	Forbes, et al.	
	A52	US-5,976,979	11/2/1999	Chen	
	A53	US-5,989,998	11/23/1999	Sugahara, et al.	
	A54	US-6,045,877	4/4/2000	Gleason, et al.	

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Sheet 3

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		Number-Kind Code ² (if known)			
	A55	US-6,051,321	4/18/2000	Lee, et al.	
	A56	US-6,054,379	4/25/2000	Yau, et al.	
	A57	US-6,057,251	5/2/2000	Goo, et al.	
	A58	US-6,060,132	5/9/2000	Lee	
	A59	US-6,068,884	5/30/2000	Rose, et al.	
	A60	US-6,071,809	6/6/2000	Zhao	
	A61	US-6,072,227	6/6/2000	Yau, et al.	
	A62	US-6,080,526	6/27/2000	Yang, et al.	
	A63	US-6,107,192	8/22/2000	Subrahmanyam, et al.	
	A64	US-6,124,641	9/26/2000	Matsuura	
	A65	US-6,140,226	10/31/2000	Grill, et al.	
	A66	US-6,147,009	11/14/2000	Grill, et al.	
	A67	US-6,153,537	11/28/2000	Bacchetta, et al.	
	A68	US-6,159,871	12/12/2000	Loboda, et al.	
	A69	US-6,242,339	6/5/2001	Aoi	
	A70	US-6,251,770	6/26/2001	Uglow, et al.	
	A71	US-6,287,990	9/11/2001	Cheung et al.	
	A72	US-6,291,334	9/18/2001	Somekh	
	A73	US-6,303,523	10/16/2001	Cheung, et al.	
	A74	US-6,312,793	11/6/2001	Grill, et al.	
	A75	US-6,316,167	11/13/2001	Angelopoulos, et al.	
	A76	US-6,331,494	12/18/2001	Olson, et al.	
	A77	US-6,340,435	1/22/2002	Bjorkman, et al.	
	A78	US-6,340,628	1/22/2002	Van Cleemput, et al.	
	A79	US-6,344,693	2/5/2002	Kawahara, et al.	
	A80	US-6,348,725	2/19/2002	Cheung, et al.	
	A81	US-6,350,670	2/26/2002	Andideh, et al.	
	A82	US-6,352,945	3/5/2002	Matsuki, et al.	

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Sheet 4

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10/801,190

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		Number-Kind Code ² (if known)			
	A83	US-6,362,091	3/26/2002	Andideh, et al.	
	A84	US-6,383,955	5/7/2002	Matsuki, et al.	
	A85	US-6,409,238	6/25/2002	Mikenis, et al.	
	A86	US-6,410,462	6/25/2002	Yang, et al.	
	A87	US-6,410,463	6/25/2002	Matsuki, et al.	
	A88	US-6,413,583	7/2/2002	Moghadam, et al.	
	A89	US-6,432,846	8/13/2002	Matsuki	
	A90	US-6,436,824	8/20/2002	Chooi, et al.	
	A91	US-6,437,443	8/20/2002	Grill, et al.	
	A92	US-6,441,491	8/27/2002	Grill, et al.	
	A93	US-6,444,568	9/3/2002	Sundararajan, et al.	
	A94	US-6,455,445	9/24/2002	Matsuki, et al.	
	A95	US-6,465,366	10/15/2002	Nemani, et al.	
	A96	US-6,479,110	11/12/2002	Grill, et al.	
	A97	US-6,479,409	11/12/2002	Shioya, et al.	
	A98	US-6,486,061	11/26/2002	Xia, et al.	
	A99	US-6,486,082	11/26/2002	Cho, et al.	
	A100	US-6,489,238	12/3/2002	TSUI	
	A101	US-6,500,773	12/31/2002	Gaillard, et al.	
	A102	US-6,511,903	1/28/2003	Yau, et al.	
	A103	US-6,511,909	1/28/2003	Yau, et al.	
	A104	US-6,521,300	2/18/2003	Hsieh, et al.	
	A105	US-6,521,302	2/18/2003	CAMPANA-SCHMITT, ET AL.	
	A106	US-6,528,423	3/4/2003	Catabay, et al.	
	A107	US-6,531,714	3/11/2003	Bacchetta, et al.	
	A108	US-6,532,150	3/11/2003	Sivertsen, et al.	
	A109	US-6,537,733	3/25/2003	Campana, et al.	
	A110	US-6,537,929	3/25/2003	Cheung, et al.	
	A111	US-6,541,282	4/1/2003	Cheung, et al.	

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	A112	US-6,541,369	4/1/2003	Huang, et al.	
	A113	US-6,541,398	4/1/2003	Grill, et al.	
	A114	US-6,548,899	4/15/2003	Ross	
	A115	US-6,555,476	4/29/2003	Olsen, et al.	
	A116	US-6,559,520	5/6/2003	Matsuki, et al.	
	A117	US-6,562,690	5/13/2003	Cheung, et al.	
	A118	US-6,570,256	5/27/2003	Conti, et al.	
	A119	US-6,573,196	6/3/2003	Gaillard, et al.	
	A120	US-6,582,777	6/24/2003	Ross, et al.	
	A121	US-6,583,048	6/24/2003	Vincent, et al.	
	A122	US-6,583,071	6/24/2003	Weidman, et al.	
	A123	US-6,592,890	7/15/2003	Green	
	A124	US-6,593,247	7/15/2003	Huang, et al.	
	A125	US-6,593,633	7/15/2003	Jan, et al.	
	A126	US-6,593,653	7/15/2003	Sundararajan, et al.	
	A127	US-6,596,655	7/22/2003	Cheung, et al.	
	A128	US-6,605,549	8/12/2003	Leu, et al.	
	A129	US-6,624,053	9/23/2003	Passemard	
	A130	US-6,627,532	9/30/2003	Gaillard, et al.	
	A131	US-6,642,157	11/4/2003	Shioya, et al.	
	A132	US-6,645,883	11/11/2003	Yamamoto, et al.	
	A133	US-6,656,837	12/2/2003	Xu, et al.	
	A134	US-6,660,391	12/9/2003	Rose, et al.	
	A135	US-6,660,656	12/9/2003	Cheung, et al.	
	A136	US-6,660,663	12/9/2003	Cheung, et al.	
	A137	US-6,673,725	1/6/2004	Shioya, et al.	
	A138	US-6,703,302	3/9/2004	Miyajima, et al.	

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	A137	US-6,673,725	1/6/2004	Shioya, et al.	
	A138	US-6,703,302	3/9/2004	Miyajima, et al.	
	A139	US-6,730,593	5/4/2004	Yau, et al.	
	A140	US-6,734,115	5/11/2004	Cheung, et al.	
	A141	US-6,734,533	5/11/2004	Wong	
	A142	US-6,737,365	5/18/2004	Kloster, et al.	
	A143	US-6,740,539	5/25/2004	Conti, et al.	
	A144	US-6,756,323	6/29/2004	Grill, et al.	
	A145	US-6,756,674	6/29/2004	Catabay, et al.	
	A146	US-6,759,327	7/6/2004	Xia, et al.	
	A147	US-6,770,573	8/3/2004	Grill, et al.	
	A148	US-6,784,119	8/31/2004	Gaillard, et al.	
	A149	US-6,790,789	9/14/2004	Grill, et al.	
	A150	US-6,806,185	10/19/2004	Li, et al.	
	A151	US-6,806,207	10/19/2004	Huang, et al.	
	A152	US-6,844,612	1/18/2005	Tian, et al.	
	A153	US-6,849,561	2/1/2005	Goundar, et al.	
	A154	US-6,887,780	5/3/2005	Andideh, et al.	
	A155	US-6,902,440	6/7/2005	Dougan, et al.	
	A156	US-6,903,004	6/7/2005	Spencer, et al.	
	A157	US-6,913,992	7/5/2005	Schmitt, et al.	
	A158	US-2001/0005546	6/28/2001	Cheung, et al.	
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	A164	US-2002/0111042	8/15/2002	Yau, et al.	

Examiner

Date Considered

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7

of 10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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	A166	US-2002/0172766	11/21/2003	Laxman, et al.	
	A167	US-2002/0182894	12/5/2002	ANDIDEH, et al.	
	A168	US-2003/0001282	1/2/2003	Meynen, et al.	
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Examiner

Date Considered

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8

of

10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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	A194	US-2004/0175957	9/9/2004	Lukas, et al.	
	A195	US-2004/0195693	10/7/2004	Kolster, et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	B1	DE 196 54 737 (Eng. Transl.)	12/30/1996	Itoh, et al.		X
	B2	DE 199 04 311 (Eng. Abstract)	8/12/1999	Shu, et al.		X
	B3	EP 0 613 178	2/22/1994	Michael		
	B4	EP 0 725 440	8/7/1996	Loboda, et al.		
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	B8	EP 1 354 980	10/22/2003	Vrtis, et al.		
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	B13	WO 00/19498	4/6/2000	Huang		
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	B17	WO 99/33102	7/1/1999	Somekh		
	B18	WO 99/41423	8/19/1999	Cheung, et al.		

Examiner

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Substitute for form 1449A/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/801,190
		Filing Date	March 15, 2004
		First Named Inventor	Lihua Li, et al.
		Group Art Unit	2891
		Examiner Name	Granvill D. Lee
		Attorney Docket Number	APPM/008670/DSM/LOW K/JW
Sheet 9	of 10	Submission Date	September 29, 2005

PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C1	Dijkstra et al., "Optimization of Anti-Reflection Layers for Deep UV Lithography", Proceedings of SPIE Optical/Laser Microlithography, Bellingham, SPIE, vol. 1927, 1993, pages 275-286.	
	C2	FUKUDA, ET AL. "Highly Reliable SiOF Film Formation by ECR-CVD Using SiF ₂ H ₂ ", Symposium on VLSI Technology Digest of Technical Papers IEEE (1996) pp. 114-115.	
	C3	Ogawa et al., "Novel ARC Optimization Methodology for KrF Excimer Laser Lithography at Low K1 Factor", Proceedings of the SPIE. Optical/Laser Microlithography V, vol. 1674, 1992, pages 362-375.	
	C4	Omar, M.A., "Elementary Solid State Physics: Principles and Applications," Lowell Technological Institute, Addison-Wesley Publishing Company, © 1975, Pages: 124, 125.	
	C5	PCT International Search Report dated February 11, 2000 for PCT/US99/22425.	
	C6	PCT International Search Report for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)	
	C7	PCT International Search Report for US/02/36229, dated September 3, 2003 (AMAT/6392.PC)	
	C8	PCT International Written Opinion for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)	
	C9	PCT Partial International Search Report dated March 21, 2000, for PCT/US99/22317.	
	C10	PCT Partial International Search Report for PCT/US2004/006849, dated October 15, 2004 (AMAT/7838.PC)	
	C11	PCT/International Search Report for US/02/40034 dated May 19, 2003	
	C12	TAJIMA, ET AL. "Characterization of Plasma Polymers from Tetramethylsilane, Octamethylcyclotetrasiloxane, and Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 25 (1987) pp. 1737-1744.	

Examiner

Date Considered

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 10

of 10

Application Number

10/801,190

Filing Date

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Group Art Unit

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C13	U.S. Patent Application No. 09/270,039, filed on March 16, 1999, Huang. (AMAT/2966.X3)	
	C14	U.S. Patent Application Serial No. 11/142,124, filed on June 1, 2005 (APPM/009516)	
	C15	Written Opinion, from PCT/US99/22424, dated April 5, 2001. (AMAT/2966.03 PC)	
	C16	Wu, et al "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Technology", 2002 IEEE, IEDM Pages 595-598.	

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